

November 18, 2009

Duke Energy Miami Fort Generating Station 11021 Brower Road North Bend, OH 45052

Attention: Ms. Sue Wallace

Chemical Engineer

Re: Results – November 2009
Low-Level Mercury Sampling
Miami Fort Generating Station
North Bend, Ohio

In accordance with your request, URS prepared the following letter report transmitting low-level mercury test results for samples collected at the Miami Fort Generating Station located in North Bend, Ohio.

The scope of work involved the sampling of intake and discharge waters from the following sources and analysis of those samples for low-level mercury.

- 1. River Intake
- 2. Station 601 (WWT Influent)
 [Samples were collected at this station one detention time before samples collected at Outfall 608]
- 3. Outfall 608 (WWT Effluent)
 [Samples were collected at this outfall one detention time after samples collected at station 601]
- 4. Outfall 002 (Pond B Discharge)

Each sample was collected following the required Method 1669: Sampling Ambient Water for Determination of Trace Metals at EPA Water Quality Criteria Levels (Sampling Method) and analyzed by Method 1631. At the request of Duke Energy, total metal mercury samples were collected from Station 601 and analyzed by Method 7470A.

Field staff from URS' Cincinnati office conducted the sampling and TestAmerica Laboratories Inc. located in North Canton, Ohio performed the analytical procedures. The analytical procedures included the analyses of a collected sample and duplicate sample (duplicates collected at Outfall 608 and Outfall 002), field blank (field blanks collected at the River Intake, Outfall 608, and Outfall 002), and trip blank.



Duke Energy - MFS November 18, 2009 Page 2

The results from the **November 2-3, 2009** sampling event are presented in the attached Table 1. A copy of the laboratory report is enclosed with this letter.

--ooOoo--

URS is pleased to provide continued assistance to Duke Energy in the execution of their environmental monitoring requirements. If there are any questions regarding the content of this report, please do not hesitate to contact the undersigned.

Sincerely,

URS Corporation

Michael A. Wagner

Project Manager

Dennis P. Connair, C.P.G.

Principal

MAW/DPC/Duke Energy-MFS LL Hg 2009 Job No. 14948701

TABLE 1

RIVER INTAKE, STATION 601, OUTFALL 608, AND OUTFALL 002 (POND B) ANALYTICAL RESULTS LOW-LEVEL MERCURY

DUKE ENERGY - MIAMI FORT STATION NORTH BEND, OHIO

		Date Sar	npled / Results	Date Sampled / Results (ng/L, parts per trillion)	r trillion)		
Sample ID	7/1/09	8/3/09	60/1/6	9/21/09	10/1/09	11/2/09	12/X/2009
River Intake	2.3	8.6 B	2.0	NSC	2.3	4.0	
Station 601 (7) Station 601 (7)* Station 601 (7)* [duplicate]	224,000 NSC NSC	226,000 4,600* NSC	NSC 58,200* NSC	62,400 8,900* NSC	186,000 374,000* 381,000*	NCS NSC NSC	
Station 601 (8) Station 601 (8)* Station 601 (8)*[duplicate]	260,000 NSC NSC	956,000 4,800* NSC	NSC 172,000* NSC	73,000 314,000* 41,600*	237,000 447,000* NSC	576,000 124,000* 111,000*	
Outfall 608 Outfall 608 [duplicate]	110	123 B 122 B	63.4 62.2	<i>57.7</i> 58.2	79.2 87.1	183 342	
APB-002 APB-002 [duplicate]	NC	5.8	2.5	NSC	3.6 3.8	4.8	
Field Blank (RL-FB) Field Blank (WWT-FB) Field Blank (AP-FB)	<0.50 <0.50 NC	2.8 1.0 <0.50	<0.50 0.72 <0.50	NSC <0.50 NSC	<0.50 0.89 <0.50	<0.50 0.62 <0.50	
Trip Blank	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

Samples collected by URS

Samples analyzed by TestAmerica of North Canton, Ohio

NC - Not Collected. (Ash Pond B Outfall 002 collected quarterly, August and December)

NSC - No Sample Collected [11/2/09 Unit 7 outage]

B = Low-level mercury detected in associated field blank collected at sampling location

^{* =} Total mercury analysis utilizing Method 7470A [results converted from ug/L (parts per billion) to ng/L]



ANALYTICAL REPORT

PROJECT NO. 1494

MIAMI FORT LLHG

Lot #: A9K040487

Sue Wallace

Duke Energy Corporation PO Box 5385 Cincinnati, OH 45201

TESTAMERICA LABORATORIES, INC.

Kenneth J. Kuzior

Project Manager ken.kuzior@testamericainc.com

November 12, 2009



Approved for release. Kenneth J. Kuzior Project Manager 11/12/2009 3:47 PM

CASE NARRATIVE

A9K040487

The following report contains the analytical results for ten water samples and one quality control sample submitted to TestAmerica North Canton by Cinergy from the Miami Fort LLHG Site, project number 1494. The samples were received November 04, 2009, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Candance Bonham, Mike Wagner, and Sue Wallace on November 10, 2009. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

All parameters were evaluated to the reporting limit.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Kenneth J. Kuzior, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 13.6°C, with no coolant present.

CASE NARRATIVE (continued)

SAMPLE RECEIVING (continued)

See TestAmerica's Cooler Receipt Form for additional information.

METALS

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

• Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride,	Phthalate Esters	Copper, Iron, Zinc,	Copper, Iron, Zinc, Lead
Acetone, 2-Butanone		Lead, Calcium,	
		Magnesium, Potassium,	
		Sodium, Barium,	
		Chromium, Manganese	

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.



TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request. California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),

Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190),NAVY, ARMY, USDA Soil Permit

N:\QAQC\Customer Service\Narrative - Combined RCRA CWA 032609.doc

EXECUTIVE SUMMARY - Detection Highlights

A9K040487

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
601 (8) WWT 11/02/09 17:15 001				
Mercury Mercury	124 576000	4.0	ug/L ng/L	SW846 7470A CFR136A 1631E
601 (8) WWT DUP 11/02/09 17:20 002				
Mercury	111	4.0	ug/L	SW846 7470A
RI 11/02/09 18:00 004				
Mercury	4.0	0.50	ng/L	CFR136A 1631E
608 WWT FB 11/03/09 07:18 006				
Mercury	0.62	0.50	ng/L	CFR136A 1631E
608 WWT 11/03/09 07:20 007				
Mercury	183	20.0	ng/L	CFR136A 1631E
608 WWT DUP 11/03/09 07:25 008				
Mercury	342	20.0	ng/L	CFR136A 1631E
OUTFALL 002 11/03/09 08:25 010				
Mercury	4.8	0.50	ng/L	CFR136A 1631E
OUTFALL 002 DUP 11/03/09 08:30 011				
Mercury	4.5	0.50	ng/L	CFR136A 1631E

ANALYTICAL METHODS SUMMARY

A9K040487

PARAMETER		ANALYTICAL METHOD
_	n Liquid Waste (Manual Cold-Vapor) Low Level Mercury, CVA Fluorescence	SW846 7470A CFR136A 1631E
Reference	es:	
CFR136A	"Methods for Organic Chemical Analysis Industrial Wastewater", 40CFR, Part 13 October 26, 1984 and subsequent revisi	86, Appendix A,
SW846	"Test Methods for Evaluating Solid Was	

SAMPLE SUMMARY

A9K040487

<u>WO #</u>	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LNTJP	001	601 (8) WWT	11/02/09	17:15
LNTJX	002	601 (8) WWT DUP	11/02/09	
LNTJ1	003	RI FB	11/02/09	17:45
LNTJ5	004	RI	11/02/09	18:00
LNTJ8	005	TRIP BLANK	11/02/09	
LNTKC	006	608 WWT FB	11/03/09	07:18
LNTKF	007	608 WWT	11/03/09	07:20
LNTKJ	008	608 WWT DUP	11/03/09	07:25
LNTKL	009	OUTFALL 002 FB	11/03/09	08:15
LNTKN	010	OUTFALL 002	11/03/09	08:25
LNTKP	011	OUTFALL 002 DUP	11/03/09	08:30

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Client Sample ID: 601 (8) WWT

TOTAL Metals

Lot-Sample # Date Sampled			eceived:	11/04/09	Matrix:	WG
PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION - ANALYSIS DATE	WORK ORDER #
Prep Batch # Mercury	124	4.0 Dilution Facto	ug/L or: 20	SW846 7470A	11/05-11/09/09	LNTJP1AC
Prep Batch # Mercury	576000	20000 Dilution Facto	ng/L or: 40000	CFR136A 1631E	11/05-11/09/09	LNTJP1AA

Client Sample ID: 601 (8) WWT DUP

TOTAL Metals

Lot-Sample # Date Sampled			Received	: 11/04/09	Matrix:	WG
PARAMETER	RESULT	REPORTING	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #	.: 9309013					

4.0 ug/L SW846 7470A 11/05-11/09/09 LNTJX1AA
Dilution Factor: 20

111

Mercury

Client Sample ID: RI FB

TOTAL Metals

Lot-Sample #...: A9K040487-003 **Matrix.....:** WQ

Date Sampled...: 11/02/09 17:45 Date Received..: 11/04/09

 PARAMETER
 RESULT
 LIMIT
 UNITS
 METHOD
 PREPARATION- ANALYSIS DATE
 WORK ORDER #

 Prep Batch #...:
 9309398

 Mercury
 ND
 0.50
 ng/L
 CFR136A 1631E
 11/05-11/06/09 LNTJ11AA

Client Sample ID: RI

TOTAL Metals

Lot-Sample #	: A9K040487	-004			Matrix:	: WG
Date Sampled	: 11/02/09	18:00 Date	Received	: 11/04/09		
		REPORTII	NG		PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOD	ANALYSIS DATE	ORDER #
D D II	020000					

Prep Batch #...: 9309398

Mercury 4.0 0.50 ng/L CFR136A 1631E 11/05-11/06/09 LNTJ51AA

Client Sample ID: TRIP BLANK

TOTAL Metals

Lot-Sample #...: A9K040487-005 **Matrix**.....: WQ

REPORTING PREPARATION - WORK
PARAMETER RESULT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 9309398

Mercury ND 0.50 ng/L CFR136A 1631E 11/05-11/06/09 LNTJ81AA

Client Sample ID: 608 WWT FB

TOTAL Metals

Matrix..... WQ Lot-Sample #...: A9K040487-006

Date Sampled...: 11/03/09 07:18 Date Received..: 11/04/09

PREPARATION-REPORTING WORK

RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 9309398

11/05-11/06/09 LNTKC1AA Mercury 0.62 0.50 ng/L CFR136A 1631E

Client Sample ID: 608 WWT

TOTAL Metals

Matrix..... WG **Lot-Sample #...:** A9K040487-007

Date Sampled...: 11/03/09 07:20 Date Received..: 11/04/09

PREPARATION-WORK REPORTING

PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 9309398

11/05-11/06/09 LNTKF1AA Mercury 183 ng/L CFR136A 1631E 20.0

Client Sample ID: 608 WWT DUP

TOTAL Metals

Lot-Sample #...: A9K040487-008 **Matrix.....:** WG

Date Sampled...: 11/03/09 07:25 Date Received..: 11/04/09

REPORTING PREPARATION- WORK

PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 9309398

Mercury 342 20.0 ng/L CFR136A 1631E 11/05-11/06/09 LNTKJ1AA

Client Sample ID: OUTFALL 002 FB

TOTAL Metals

Lot-Sample #...: A9K040487-009 Matrix.....: WQ

Date Sampled...: 11/03/09 08:15 Date Received..: 11/04/09

PARAMETER RESULT REPORTING PREPARATION- WORK

LIMIT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 9309398

Mercury ND 0.50 ng/L CFR136A 1631E 11/05-11/06/09 LNTKL1AA

Client Sample ID: OUTFALL 002

TOTAL Metals

Lot-Sample #...: A9K040487-010 Matrix.....: WG

Date Sampled...: 11/03/09 08:25 Date Received..: 11/04/09

REPORTING PREPARATION- WORK

PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 9309398

Mercury 4.8 0.50 ng/L CFR136A 1631E 11/05-11/06/09 LNTKN1AA

Client Sample ID: OUTFALL 002 DUP

TOTAL Metals

Lot-Sample #...: A9K040487-011 **Matrix.....:** WG

Date Sampled...: 11/03/09 08:30 Date Received..: 11/04/09

REPORTING PREPARATION- WORK
PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 9309398

Mercury 4.5 0.50 ng/L CFR136A 1631E 11/05-11/06/09 LNTKP1AA



QUALITY CONTROL SECTION

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A9K040487

NOTE(S):

Matrix....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #	: A9K050000-01	3 Prep Ba	tch #: 9	309013		
Mercury	ND	0.20	ug/L	SW846 7470A	11/05-11/06/09	LNV7M1A2
	D	ilution Facto	or: 1			
MB Lot-Sample #	ND	8 Prep Ba 0.50 ilution Facto	ng/L	309398 CFR136A 1631E	11/05-11/06/09	LNXK31AA

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A9K040487 Matrix.....: WATER

PERCENT RECOVERY PREPARATION-

PARAMETER RECOVERY LIMITS METHOD ANALYSIS DATE WORK ORDER #

LCS Lot-Sample#: A9K050000-013 Prep Batch #...: 9309013

Mercury 106 (81 - 123) SW846 7470A 11/05-11/06/09 LNV7M1CT

Dilution Factor: 1

LCS Lot-Sample#: A9K050000-398 Prep Batch #...: 9309398

Mercury 105 (77 - 125) CFR136A 1631E 11/05-11/06/09 LNXK31AC

Dilution Factor: 1

NOTE(S):

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot # Date Sampled		:0487 :/09 09:30 Date R	eceived.	.: 10/30/09	Matrix	: WATER
	PERCENT	RECOVERY	RPD		PREPARATION-	WORK
PARAMETER	RECOVERY	LIMITS RPD	LIMITS	METHOD	ANALYSIS DATE	ORDER #
MS Lot-Sampl	. e #: A9J30	0363-031 Prep B	atch #	.: 9309013		
Mercury	111	(69 - 134)		SW846 7470A	11/05-11/06/09	LNL0Q1DU
	119	(69 - 134) 6.9	(0-20)	SW846 7470A	11/05-11/06/09	LNL0Q1DV
		Dilution Fac	tor: 1			
NOTE(S):						

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #	: A9K04	0487			Matrix	: WG
Date Sampled	11/03	/09 08:25 Date R	eceived.	.: 11/04/09		
	PERCENT	RECOVERY	RPD		PREPARATION-	WORK
PARAMETER	RECOVERY	LIMITS RPD	LIMITS	METHOD	ANALYSIS DATE	ORDER #
MS Lot-Sampl	e #: A9K04	0487-010 Prep B	atch #	.: 9309398		
Mercury	84	(71 - 125)		CFR136A 1631E	11/05-11/06/09	LNTKN1AC
	81	(71 - 125) 2.1	(0-24)	CFR136A 1631E	11/05-11/06/09	LNTKN1AD
		Dilution Fac	tor: 1			

Calculations are performed before rounding to avoid round-off errors in calculated results.

NOTE(S):

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A9K040487 Matrix....: WATER Date Sampled...: 11/02/09 09:30 Date Received..: 11/03/09 PERCENT RECOVERY RPD PREPARATION-WORK PARAMETER RECOVERY LIMITS RPD LIMITS METHOD ANALYSIS DATE ORDER # MS Lot-Sample #: A9K040554-001 Prep Batch #...: 9309398 Mercury 82 (71 - 125)CFR136A 1631E 11/05-11/09/09 LNT4J1AC 114 (71 - 125) 6.4 (0-24) CFR136A 1631E 11/05-11/09/09 LNT4J1AD Dilution Factor: 4

NOTE(S):

Chain of Custody Record

TestAmerica Laboratory location:

TestAmerica

573)651-340 Project Name: 608 WWT FB elin uished h 608 WWI BUD TRIP 608 MWT Non-Hazard Flammable
pecial Instructions/QC Requirements & Comments: BUTFALL DOZ City/Stat Possible Hazard Identification MIAMI FORT LL HG 601 601 1494 Dend, BARK WWY Client Contact [WINT B Ohio JES CORPORATION Skin Irritant Company. Sue - Welloce @ John - every, com Shipping/Tracking No: mike-wagnes & uscosp. (11-02-81 Sample Date Client Project Manager 11.03.81 07.18 MIKE WHONER 25 ← Regulatory program: Poison B 0825 5240 Sample Time 0720 159 0815 次 Bao 1720 24 3440 Air 11-03-07 Date/Time: ☐ DW Unknown /URS | NPDES H2SO4 Sample Disposal (A fee may be assessed if samples are retained longer than I month)

Return to Client Disposal By Lab Archive For TAT if different from below 57441340 (513) 467-4905 HCl Wallace Received by: RCRA NaOH l week 2 days 2 wecks 3 weeks ZnAc/ 8 1 ري Unpres Other: Other Telephone: Lab Contact: * Test Inca'u Months Date/Time: TestAmerica Laboratories, Inc. Semples may how huse ! Has 11/4/09 Mg concentration lave elevates Sample Specific Notes / Special Instructions: L of 2 cocs 11:30 820

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TAL-0018 (1008)

Chain of Custody Record

Temperature on Receipt ____

<u>TestAmericc</u>

Drinking Water? Yes□ No

THE LEADER IN ENVIRONMENTAL TESTING

							Comments
101		X	3. Received By		Date /		3. Relinquishèd B
Date Time			2. Received By		11/3/b9		M
Date 11:30		7	P	8	Dane Dane	11-03	2. Refinancished by
		city)	ас неquirements (Specify)	ARD	Other)	21 Days	1 Refinancished Ry
longer than 1 month)	Months	Archive For	Disposal By Lab	Return To Client	Unknown	- Poison B	Tum Around Time:Required
(A fee may be assessed if samples are retained			L		ı Ş		dentification
27							
of			-				
330							
elevated lively							
Contain							
Soughts man		4		1	1830 V	11-03-09	OUTFALL OOZ DUP
Low level the		Lon	H2SO4 HNO3 HCI NaOH ZnAc/ NaOH	Sed. Soil Unpres.	Air Aqueous	Date	Sample I.D. No. and Description (Containers for each sample may be combined on one line)
Conditions of Receipt		Le	Containers & Preservatives	Matrix			ContractPurchase Order/Quote No. 1494 870 . 00100
Special Instructions/		ul		Number	Carrier/Waybill Number	2005	Midmi Fort LL Kg
ded)	more space is needed)	15	Lab Contact	6	5. 200		Send, The
Page 2 of 2			1-3440		513	> Porte	Minim Fort Generaling
103140	umber	1		-	Telephone Number (Area.	Conf	Addipss
Chain of Custody Number	Date 11 - 0 2 -	(0.00)	CRS	Mac m	Project Manager	\T\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Cherry Charles The
							(HL-4124 (1007)

		Lot Number: <u>A9K040487</u>
North Canton Facili		2 2
Client Doke Gre		By://lana Ma
Cooler Received on	9//4/09 Opened on 11/4/09	(Signature)
FedEx W UPS ☐ DHL	☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestA	merica Courier 🗌 Other
TestAmerica Cooler #	C319 Multiple Coolers ☐ Fpam Box ☐	Client Cooler Other
		Intact? Yes ᠒ No □ NA □
If YES, Quantity		
	on the outside of cooler(s) signed and dated?	Yes No NA
Were custody seals of		Yes 🔲 No 🔯
If YES, are there any		
	o attached to the cooler(s)?	Yes ⊠ No □
	ccompany the sample(s)? Yes 💢 No 🗌	Relinquished by client? Yes 🛱 No 🗌
	pers signed in the appropriate place?	Yes ♥ No □
Packing material used	d: Bubble Wrap 💢 , Foam 💢 None 🗌 Ot	her
6. Cooler temperature u	pon receipt °C See back of form for	or multiple coolers/temps
METHOD: II	R 🔯 Other 🗌	
COOLANT: Wet Id		None 🕅 🧳
Did all bottles arrive in	n good condition (Unbroken)?	'Yes Ϫ No 🗆
8. Could all bottle labels	be reconciled with the COC?	Yes 🔀 No 🔲
9. Were sample(s) at the	e correct pH upon receipt?	Yes 🔼 No 🗌 NA 🗍
10. Were correct bottle(s)	used for the test(s) indicated?	Yes 🔼 No 🗌
11. Were air bubbles >6 r	nm in any VOA vials?	Yes 🔟 No 🔲 NA 🛣
12. Sufficient quantity rec	ceived to perform indicated analyses?	Yes No 🗆
13. Was a trip blank prese		As on the COC? Yes 🔲 No 🕅
Contacted PM	Date by	via Verbal 🔲 Voice Mail 🔲 Other 🗍
Concerning		
14. CHAIN OF CUSTOD	Y	
The following discrepanci	es occurred:	
that y	tempokas 11th & outols.	
	temp skacy Utta + nutals.	

15. SAMPLE CONDITIO	N	
15. SAMPLE CONDITION Sample(s)		recommended holding time had expired.
		recommended holding time had expired. were received in a broken container.
Sample(s)	were received after the	
Sample(s)Sample(s)	were received after the were received wit	were received in a broken container.
Sample(s) Sample(s) Sample(s) 16. SAMPLE PRESERVA	were received after the were received with	were received in a broken container. h bubble >6 mm in diameter. (Notify PM)
Sample(s) Sample(s) Sample(s) 16. SAMPLE PRESERV Sample(s)	were received after the were received with ATION were received with	were received in a broken container. h bubble >6 mm in diameter. (Notify PM) ere further preserved in Sample
Sample(s) Sample(s) Sample(s) 16. SAMPLE PRESERVA Sample(s) Receiving to meet recommendations Hydroxide Lot# 100108 -Nac	were received after the were received with ATION were received with ATION w mended pH level(s). Nitric Acid Lot# 031909-HNO3; SL OH; Hydrochloric Acid Lot# 092006-HCI; Sodium Hydroxic	were received in a broken container. h bubble >6 mm in diameter. (Notify PM) ere further preserved in Sample ulfuric Acid Lot# 082509-H ₂ SO ₄ ; Sodium
Sample(s) Sample(s) Sample(s) 16. SAMPLE PRESERV Sample(s) Receiving to meet recommend to the sample of the sample	were received after the were received with ATION were received with Were received with ATION were received with ATION were received with ATION were received with ATION were received after the	were received in a broken container. h bubble >6 mm in diameter. (Notify PM) ere further preserved in Sample ulfuric Acid Lot# 082509-H ₂ SO ₄ ; Sodium
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TestAmerica Cooler Receipt Form/Narrative North Canton Facility Client ID На **Date** <u>Initials</u> Cooler Temp °C **Method** Coolant Discrepancies Cont'd



END OF REPORT